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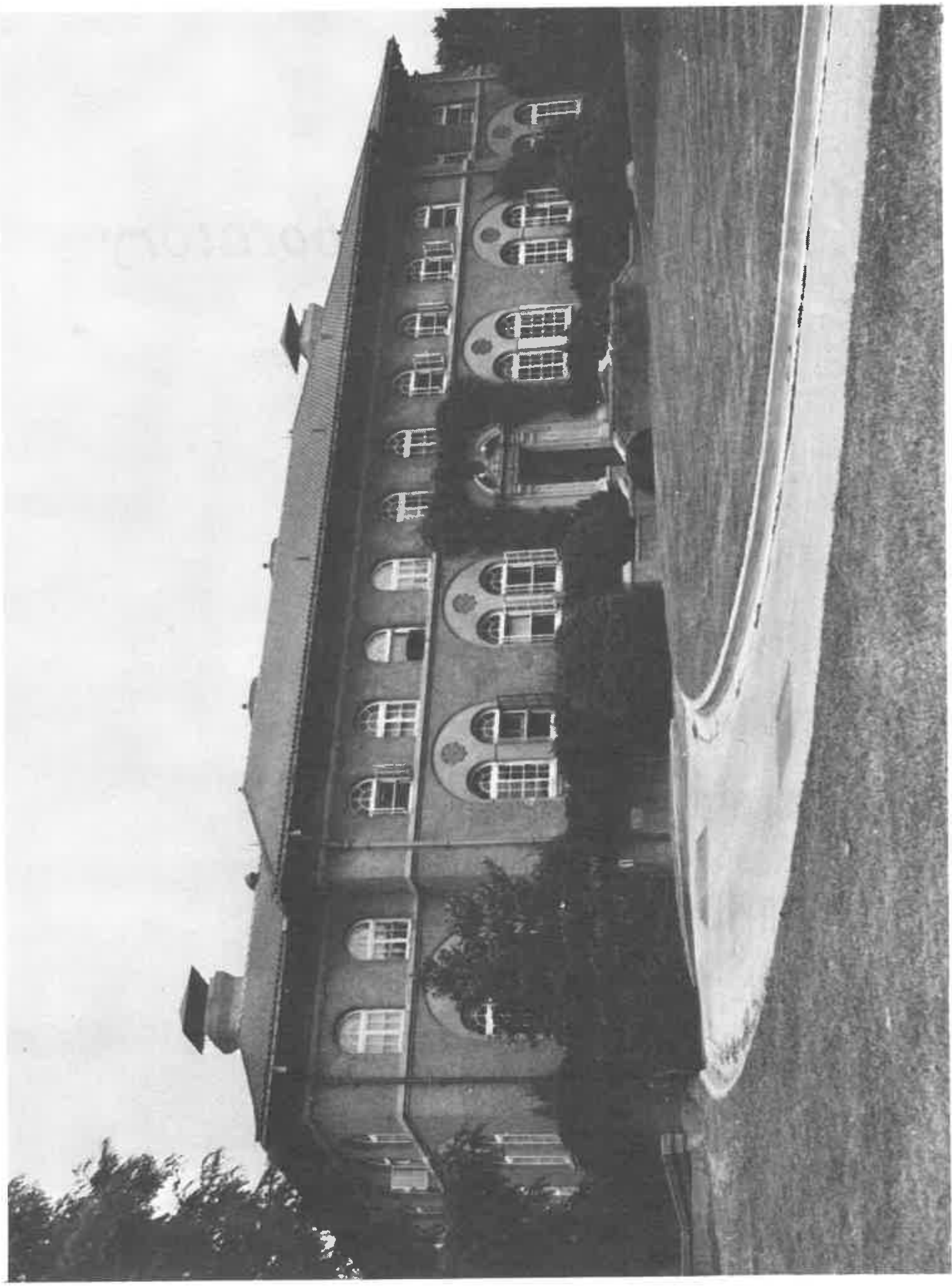

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PREFACE

The Geophysical Laboratory celebrates its seventy-fifth year of service in scientific research and education. In honor of this occasion, the Annual Reports for the period 1905 through 1980 have been indexed. Geophysical projects sponsored by the Carnegie Institution of Washington during the formative period of the Laboratory, 1902-1905, are also included.

The Indices of the Annual Reports of the Director of the Geophysical Laboratory were prepared by Dr. Robert M. Hazen and Mrs. Margaret H. Hazen. The extensive word processing and editing were carried out by Mrs. Dolores M. Petry. The procedures for automating, alphabetizing, and formating of the indices were devised by Dr. Larry W. Finger. Please notify the Geophysical Laboratory of corrections and additions so that future editions of the Indices may be made more useful and accurate. The many colleagues, past and present, who reviewed the preliminary drafts of the Indices are thanked for their kind suggestions and corrections.

The Indices are dedicated to the perceptive and visionary men who believed that a small group of talented individuals working in concert could, in the words of Mr. Andrew Carnegie's Trust, apply "knowledge to the improvement of mankind" through "investigation, research, and discovery."

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SYSTEMS INDEX

I. End-Member Silicate Mineral Systems

Silicate mineral systems are listed alphabetically by mineral abbreviation, followed by nonmineral silicate formulae, metal oxide, and volatile components. Polymorphs are not distinguished in the list of end-members (e.g., "OR" stands for all pure potassium alkali feldspars, including sanidine, orthoclase and microcline). Abbreviations for mineral end-members are:

AB	Albite	HD	Hedenbergite
AC	Acmite	JD	Jadeite
AK	Akermanite	KS	Kalsilite
ALM	Almandine	LC	Leucite
AN	Anorthite	MEL	Melilite
ANDR	Andradite	MO	Monticellite
CATS	$CaAl_2SiO_6$	MS	Muscovite
CC	Calcite	MU	Mullite
CRD	Cordierite	NE	Nepheline
DI	Diopside	OR	Orthoclase
FA	Fayalite	PHL	Phlogopite
FO	Forsterite	PY	Pyrope
FS	Ferrosilite	SPES	spessartine
GEH	Gehlenite	SPOD	Spodumene
GR	Grossular	WO	Wollastonite

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II. Oxide-Component Systems

Oxide-component systems are listed in the sequence alkali, divalent, trivalent, and tetravalent cation oxides, followed by elemental and volatile components. Within each cation valence group, oxides are listed in order of increasing atomic weights.

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FORMULA INDEX

This index contains element and compound formula entries, which are arranged alphabetically by chemical symbol. Sodium aluminum silicate ($NaAlSiO_4$) thus appears before sodium oxide (Na_2O), which appears before sodium silicate ($Na_2Si_2O_5$). All compounds beginning with carbon (C) appear before compounds beginning with calcium (Ca); compounds beginning with sulfur (S) appear before those with silicon (Si), etc. Index entries are for specific properties of elements or compounds, either synthetic or natural, that approximate end-member compositions. Natural or synthetic minerals of intermediate compositions are listed by mineral name in the subject index, or may be contained in appropriate synthetic systems in the systems index.

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